

## HS3 - Global Hawk #871 09/10/13 Science Report

**Aircraft:** [Global Hawk - AFRC #871](#) ([See full schedule](#))

**Date:** Tuesday, September 10, 2013

**Mission:** HS3

**Mission Location:** Tropical Storm Gabrielle, central Atlantic

**Mission Summary:**

This was an attempted flight to sample Tropical Storm Gabrielle after its reformation into a named storm. However, the flight was scrubbed and the airplane returned to Wallops due to a navigation unit failure before the aircraft was able to do any science on station.

**Submitted by:** Scott Braun on 09/18/13

**File:**

 [HS3\\_Sep10-11\\_AV-1\\_flight\\_report.pdf](#)

**Related Flight Report:**

### Global Hawk #871 09/10/13

**Flight Number:** 871-0090

**Payload Configuration:** HS3 - TN871 2013 config

**Nav Data Collected:** No

**Total Flight Time:** 4.6 hours

**Comments:** About 35-40 minutes into the flight, one of four navigation units on TN871 failed. Under this circumstance, the Flight Operations Manual instructs the Pilots to land as soon as practical. The decision was made to burn off fuel for about 3 hours in the restricted area before landing. This is not considered an inflight emergency. Landing occurred without incident and the navigation unit has been replaced.

**Submitted by:** Chris Naftel on 09/12/13

**Flight Segments:**

<b>From:</b>	WFF	<b>To:</b>	WFF
<b>Start:</b>	09/10/13 13:58 Z	<b>Finish:</b>	09/10/13 18:33 Z
<b>Flight Time:</b>	4.6 hours		
<b>Log Number:</b>	<a href="#">13H010</a>	<b>PI:</b>	Marilyn Vasques
<b>Funding Source:</b>	Hal Maring - NASA - SMD - ESD Radiation Science Program		
<b>Purpose of Flight:</b>	Science		

**Flight Hour Summary:**

	<b>13H010</b>
<b>Flight Hours Approved in SOFRS</b>	459.1
<b>Total Used</b>	272.4
<b>Total Remaining</b>	186.7

#### 13H010 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">08/01/13</a>	872-0111	Check	5	5	454.1	
<a href="#">08/08/13</a>	871-0087	Check	4.6	9.6	449.5	
<a href="#">08/14/13</a>	871-0088	Ferry	10.8	20.4	438.7	
<a href="#">08/16/13</a>	872-0112	Ferry	10.2	30.6	428.5	
<a href="#">08/20/13 - 08/21/13</a>	872-0113	Science	25.1	55.7	403.4	

<a href="#">08/24/13 - 08/25/13</a>	872-0114	Science	24.6	80.3	378.8
<a href="#">08/29/13 - 08/30/13</a>	872-0115	Science	22.6	102.9	356.2
<a href="#">09/03/13 - 09/04/13</a>	871-0089	Science	23.2	126.1	333
<a href="#">09/04/13 - 09/05/13</a>	872-0116	Science	22.9	149	310.1
<a href="#">09/07/13 - 09/08/13</a>	872-0117	Science	23.2	172.2	286.9
<a href="#">09/10/13</a>	871-0090	Science	4.6	176.8	282.3
<a href="#">09/15/13 - 09/16/13</a>	871-0091	Science	22.9	199.7	259.4
<a href="#">09/16/13 - 09/17/13</a>	872-0118	Science	20.6	220.3	238.8
<a href="#">09/17/13</a>	871-0092	Science	4.5	224.8	234.3
<a href="#">09/19/13 - 09/20/13</a>	872-0119	Science	22.7	247.5	211.6
<a href="#">09/25/13 - 09/26/13</a>	871-0093	Science	15.1	262.6	196.5
<a href="#">09/26/13</a>	872-0120	Ferry	9.8	272.4	186.7

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Bruce A. Tagg

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